

REPLACEMENT SHEET 1/8

FIG. 1

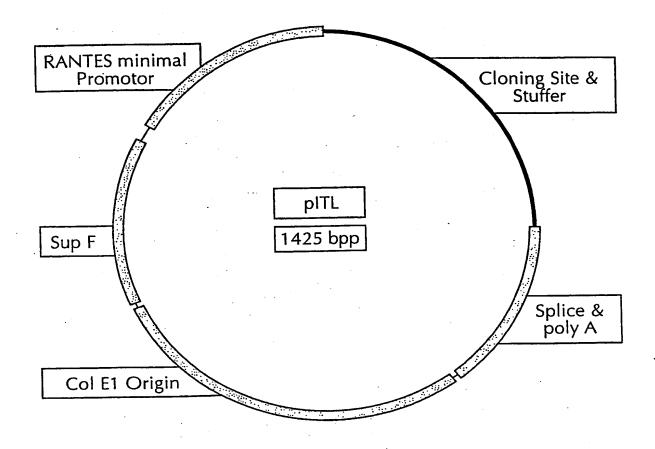


FIG. 2



CGGAATT/CCCG (SEQ. ID NO. 34)

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FIG. 3A

M---ELAALCRWGLLLALLP-PGA-AST-VCTGTDMKLRLPASPETHLDMLRHLYQGCQVVQGNLELTYLPTNAS MRPSGTAGAALLALLAALCPASRALEEKKVCQGTSNKLTQLGTFEDHFLSLQRMFNNCEVVI

LSFLQDIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLRSL 140 147 GLKELPMRNI -AN---KT-SFLKTIQEVAGYVLIALNTVERIPLENLQIIRGNMYYENSYALAVLSNYD-

TEILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPMCK-GSRCWGESSEDCQSLTRTV CWGAGEENCOKLTKI 1 QEILHGAVRFSNNPALCNVESIQWRDIVSSDFLSNMSMDFQNHLGSCQKCDPSCPNGS-(

ÇAQQÇSGRÇRGKSPSDÇCHNQÇAAGÇTGPRESDÇLVÇRKFRDEATÇKDTÇPPLMLYNPTTYQMDVNPEGKYSFGA CAGGCA-RCKGPLPTDCCHEQCAAGCTGPKHSDCLACLHFNHSGICELHCPALVTYNTDTFESMPNPEGRYTFGA

YLSTDVGSCTLVCPLHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLREVRAVTSANIQEFAGCKKIFGSLAFL CRKVCNGIGIGEFKDSLSINATNIKHFKNCTSISGDLHI1 YVVTDHGSCVRACGADSYEME-EDGVRK

350

PESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSLPDLSVFQNLQVIRGRILHNGAYSLTLQGLGISW IOAWPENRTDLHAFENLEI PVAFRGDSFTHTPPLDPQELDILKTVKELTGFL



FIG. 3B

VAIKVLRENTSPKANKEILDEAYVMAGVGSPYVSRLLGICLTSTVQLVTQLMPYGCLLDHVTENRGRLGSQDLLN LRRRF OLITOLMPFGCLLDYVREHKDNIGSQYLLN CVNCSQFLRGQECVEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFGPEADQCVACAHYKDPPFCVARCPS LGLRSLRELGSGLALIHHNTHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGLACHQLCARGHCWGPGPTQ CVSCRNVSRGRECVDKCKLLEGEPREFVENSECIQCHPECLPQAMNITCTGRGPDNCIQCAHYIDGPHCVKTCPA SPEGCWGPEPRD KRRQQKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVKVLGSGAFGTVYKGIWIPDGENVKIP 727 GSGAFGTVYKGLWIPEGEKVKIP 583 GIGLF LLVVVLGVVFGI-LI 892 WCMQIAKGMSYLEDVRLVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETEYHADGGKVPIKWMALE GVMGENNTLV-WKYADAGHVCHLCHPNCTYGCTGPGLEGCPTNGPKIP<u>SIATGMVGALLLLLLVVAL</u> KEISDGDVIISGNKNLCYANTINWKKLFGTSGQKTKIISNRGENSCKATGQVCHA WCVQIAKGMNYLEDRRLVHRDLAARNVLVKTPQHVKITDFGLAKLLGAEEKEYHAEGGKV GVKPDLSYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGCPAEQRASPLT<u>SIISAVVGII</u> <u>M</u>ŖŖRHIVŖĶŖŢĿŖŖĻĻQĔŖĘĿŸĔ₽ĿŢPSGĔĀPNQĀĿĿŖĪĿĸĔŢĒFKKĪKVĿ 644 631 775 850 790 STV VAIKELREATSPKANKEILDEAYVMASVDNPHVCRLLGICLT 475 684 850



AHWAQKGSHQ-ISLDNPDYQ-QDFFPKEAKPNGIFKGSTAENAEYLR-VAPQSSEFIGA (SEQ. ID. NO. 35) AAP-QPHPPPAFSPAFDNLYYWDQDPPERGAPPS-TFKG-TPTAENPEYLGLDVPV AAP-QPHPPPAFSPAFDNLYYWDQDPPERGAPPS-TFKG-TPTAENPEYLGLDVPV 1255
1150 TFDSTFLPVPEYINQ-SVPKRPAGSVQNPVYHNQPLNPAPSRDPHYQDPHSTAVGNPEYLNTVQPTCVNSTFDSP TFDSTFLPVPEYINQ-SVPKRPAGSVQNPVYHNQPLNPAPSRDPHYQDPHSTAVGNPEYLNTVQPTCVNSTFDSP
1070 E-DSIDDTFLPVPEYINQ-SVPKRPAGSVQNPVYHNQPLNPAPSRDPHYQDPHSTAVGNPEYLNTVQPTCVNS E-DSIDDTFLPVPEYINQ-SVPKRPAGSVQNPVYHNQPLNPAPSRDPHYQDPHSTAVGNPEYLNTVQPTCVNS
SSPSTSRTPLLSSLSATSNNSTVACIDRNGLOSCPIKEDSFLORYSSDPTGAL-T
990 EFSKMARDPORYLVIQGDERMHLPSPTDSNFYRALMDEE-DMDDVVDADEYLIPQQGFF
THOSDVWSYGVTVWELMTFGSKPYDGIPASEISSILEKGERLPOPPICTIDVYMIMVKCWMIDAUSKFRFRELITION THOSDVWSYGVTVWELMTFGSKPYDGIPASEISSILEKGERLPOPPICTIDVYMIMVKCWMIDSECRPRFRELVSTHOSDVWSYGVTVWELMTFGAKPYDGIPAREIPDLLEKGERLPOPPICTIDVYMIMVKCWMIDSECRPRFRELVS





MIIMELAAWCRWGFLLALLPPGIAGTQVCTGTDMKLRLPASPETHLDMLRHLYQGCQVVQGNLELTYVPANASLS LPPGAASTQVCTGTDMKLRLPASPETHLDMLRHLYQGCOVVO MELAALCRWGLLLALI

FLÓDÍQEVQGYMLÍAHNQVKRVPLQRLRÍVRGTQLFEDKYALAVLDNRDPQDNVAASTPGRTPEGLRELQLRSLT FLQDIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVT-GASPGGLRELQLRSLT 117

296 EILKGGVLIRGNPQLCYQDMVLWKDVFRKNNQLAPVDIDTNRSRACPPCAPACKDNHCWGESPEDCQILTGTICT EILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPMCKGSRCWGESSEDCQSLTRTVCA 176

300 SGCARCKGRLPTDCCHEQCAAGCTGPKHSDCLACLHFNHSGICELHCPALVTYNTDTFESMHNPEGRYTFGASCV NTDTFESMPNPEGRYTFGASCV 356 GGCARCKGPLPTDCCHEQCAAGCTGPKHSDCLACLHFNHSGI 236

TTCPYNYLSTEVGSCTLVCPPNNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLRGARAITSDNVQEFDGCKKIF GMEHLREVRAVTSANIOEFAGCKKI TACPYNYLSTDVGSCTLVCPLHNQEVTAEDGTQRCEKCSKPCARVCY

SAWPDSLRDLSVFQNLRIIRGRILHDGAYSLTLQ SAWPDSLPDLSVFQNLQVIRGRII GSLAFLPESFDGDPSSGIAPLRPEQLQVFETLEEITGYLYI SFDGDPASNTAPLQPEQLQVFETLEEITGYLYI

416



FIG. 4B

595 WGPGPTOCVNCSOFLRGOECVEECRVLOGLPREYVNARHCLPCHPECOPONGSVŢĊFGPĘADQÇVĄCĄHŸĶDPPF GENVKI PVAIKVLRENTSPKANKEILDEAYVMAGVGSPYVSRLLGICLTSTVQLVTQIMPYGCLLDHVREHRGRL 870 GSQDLLINWCVQIAKGMSYLEDVRLVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETEYHADGGKVPIKWMALE 835 WĠPĠPŢĠĊVNĊSHFĹŔĠQEĊVĖEĊŔVWKĠĹPŔĖŶVSDKRĊĹPĊĦPĖĊQPQNSSEŢĊFĠSĖAĎQĊAĀĊĀĤŶKĎSSS 009 LIHRNAHLCFVHTVPWDQLFRNPHQALLHSGNRPEEDLCVSSGLVCNSLCAHGHC CVARCPSGVKPDLSYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGCPAEQRASPLT<u>SIISAVVGILLVVVLGVV</u> CVGEGLACHQLCARGHC KRR-QOKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVKVLGSGAFGTVYKGIWIPD TDFGLARLLDIDETEYHADGGKVPI 655 <u>ĊVARĊÞSĠVRÞDLSYMPIWKYPDEEGICQPCPINCTHSCVDLDERGCPAEQRASPVT<u>FI</u></u> CFVHTVPWDOLFRNPHQALLHTANRPEDE-GMSYLEDVRLVHRDLAARNVLVKSPNHVKI 710 476 480 GLRSLRELGSGLALIHHNTHL LRENTSPKANKE. GLGIHSLGLRSLRELGSGLAI 540 830 LGISWIGSOI



SILRRRFTHQSDVWSYGVTVWEIMTFGAKPYDGIPAREIPDLLEKGERLPQPPICTIDVYMIMVKCWMIDSECRP 955 CWMIDSECRP

ĸĖĸĖĽVSĖĖSRMAKDPQRĖVVIQNEDLGPSSPMDSTĖYRSLLEDDDMGDLVDAEEYLVPQQGFFSPDPTPGTGST SLLEDDDMGDLVDAEEYLVPQQGFFCPDPAPGAGGM 1015 GPASPLDSTFYR FRELVSEFSRMARDPORFVVIQNEDL

PSEEGPPRSPLAPSEGAGSDVFDGDLAMGVTKGLQSLSPHDLSPLQRYSEDPT 1075 ഗ് APSEGAGSDVFDGDLGMGAAKGLOSLPTHDPSPL GLEPSEEEAPRSPL 1070 **AHRRHRSSSTRSGGGELTLGLE** VHHRHRSSSTRSGGGDLTL

1193

VPLPSETDGYVAPLTCSPQPEYVNQPDVRPQPPSPREGPLPAARPAGATLERPKTLSPGKNGVVKDVFAFGGAVE (SEQ. ID NO. NPEYLVPREGTASPPHPSPAFSPAFDNLYYWDQNSSEQGPPPSNFEGTPTAENPEYLGLDVPV

1255